



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200
Fax 613 632-5246

C45-HC Job Sheet 191752



Part No: C45-HC

Job Qty: 1 pcs

Part Name: C-Series Remote Hook 4,500 lbs Lift Capacity With Cage



Part Weight: 0 lbs

Status: New

Priority: Medium

Job Created: 3/7/19

Job Tracking No:

Due Date: 5/6/19

Created By: Marie Lajeunesse

Type: SOLD

Description: *order 13882*

Note: IPP REV:A 18.02.16 NEW ISSUE DD VERF:JFS

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup Hrs	Run Hrs	Workcenter / Supplier	Lead Time	
100	External Load - 1	1 pcs	5/6/19	5/6/19	0.00	0.50	External Load - 1		<i>AP 2019/05/02</i>
							External Load - 2		
							External Load - 3		
120	QC 5	1 pcs	5/6/19	5/6/19	0.00	0.00	QC 5 - 10		
							QC 5 - 12		
							QC 5 - 17		
							QC 5 - 18		
							QC 5 - 19		
							QC 5 - 22		
							QC 5 - 24		
							QC 5 - 3		
							QC 5 - 42		
							QC 5 - 43		
							QC 5 - 49		
							QC 5 - 51		
							QC 5 - 58		
							QC 5 - 68		
							QC 5 - 9		
							QC 5 - 50		
							QC 5 - 30		
							QC 5 - 40		
130	DC - 1 - B4B	1 pcs	5/6/19	5/6/19	0.00	0.00	DC - 1 - B4B		<i>DAG 21 MAY 03 2019</i>
							DC - 2 - B4B		
140	Packaging 3-1 - Stock - B4B	1 pcs	5/6/19	5/6/19	0.00	0.00	Packaging 3 - 1 - B4B		<i>DAG 30 MAY 03 2019</i>
							Packaging 3 - 2 - B4B		
							Packaging 3 - 3 - B4B		
							Packaging 3 - 4 - B4B		
							Packaging 3 - 5 - B4B		
							Packaging 3 - 6 - B4B		
							Packaging 3 - 7 - B4B		
							Packaging 3 - 8 - B4B		

Date: 05/03/19

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Entered: _____ Date: _____



WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. _____

Route update only ☐

Job: _____ Part No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐	DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Eng. (Non-AW) ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Engineering ☐ Water Jet ☐ Supplier ☐ Quality ☐			
Date :	Sequence #:	QTY Affected :		MRB (QSI042)	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor	
				QC / QA Coordinator	
Root Cause Operator ☐ Manufacturing Process ☐ Equip/Tooling ☐ Handling/Presservation ☐ Material ☐ Product Improvement ☐ Process Improvement ☐ Human Factors ☐ ☐ Pressure/Forced ☐ Bending ☐ Crushing ☐ Cracks ☐ Crimp/Kink/Ripple/Wave/Twist ☐ Marks/Chatter ☐ Mislabeled		FAULT CATEGORY ☐ Contamination ☐ Misaligned/off center ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Incomplete/Unclear Instructions ☐ Drill Holes ☐ Fit/Function ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain Direction ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set/Set-up ☐ Positioned Wrong ☐ Outside Tolerance ☐ Drawing ☐ Finish ☐ Part Lost/Missing ☐ Misread			
Other/Details:					

				Packaging 3 - 9 - B4B	
				Packaging 3 - 10 - B4B	
				Packaging 3 - 11 - B4B	
				Packaging 3 - 12 - B4B	
				Packaging 3 - 13 - B4B	
				Packaging 3 - 14 - B4B	
				Packaging 3 - 15 - B4B	
				Packaging 3 - 16 - B4B	
				Packaging 3 - 17 - B4B	
				Packaging 3 - 18 - B4B	
				Packaging 3 - 19 - B4B	
				Packaging 3 - 20 - B4B	
				Packaging 3 - 21 - B4B	
				Packaging 3 - 22 - B4B	
				Packaging 3 - 23 - B4B	
				Packaging 3 - 24 - B4B	
				Packaging 3 - 25 - B4B	
				Packaging 3 - 26 - B4B	
				Packaging 3 - 27 - B4B	
				Packaging 3 - 28 - B4B	
				Packaging 3 - 29 - B4B	
				Packaging 3 - 30 - B4B	
				Packaging 3 - 31 - B4B	
				Packaging 3 - 32 - B4B	
				Packaging 3 - 33 - B4B	
				Packaging 3 - 34 - B4B	
				Packaging 3 - 35 - B4B	
				Packaging 3 - 36 - B4B	
160 QC 21 - FG	1 pcs	5/6/19	0.00 0.00	QC 21 - FG - 21	DAG
				QC 21 - FG - 70	21 MAY 03 2019
				QC 21 - FG - 53	9-69
Part Op 100 - Assemble the hook into the cage using the hardware called out on the C45-C drawing and torque fasteners to 290-Descriptions: 410 in. lbs. 120 - (QC5- Inspect part completeness to step on W/O) 130 - (Document Control) Photocopy blue file and create labels as per O&OPM-C45 140 - (Identify as per dwg & Stock Location: _____) 160 - (QC21- Final Inspection - Work Order Release)					
Job BOM					
Part / Item	Component Name	Quantity	Operation	Container	
C45	C-Series Remote Hook 4,500 lbs Lift Capacity	1 pcs (1 ea)	100-External Load - 1		5167059
C45-C	Single Cage Assembly (C45 & C60 Hook)	1 pcs (1 ea)	100-External Load - 1		5177602
Job Allocations					
Operation	Component Part	Required	Inventory	Allocated	
100-External Load - 1	C45	1	0	0	
	C45-C	1	0	0	
Part Specifications					
Specifications could not be found.					

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Entered: _____ Date: _____



WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. _____

Route update only ☐

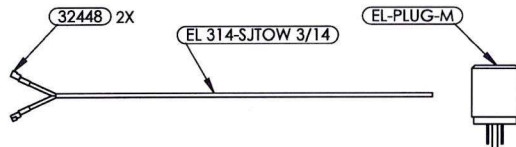
Job: _____ Part No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐	DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Eng. (Non-AW) ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Engineering ☐ Water Jet ☐ Supplier ☐ Quality ☐			
Date :	Sequence #:	QTY Affected :		MRB (QSI042)	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor	
				QC / QA Coordinator	
Root Cause Operator ☐ Manufacturing Process ☐ Equip/Tooling ☐ Handling/Presservation ☐ Material ☐ Product Improvement ☐ Process Improvement ☐ Human Factors ☐		FAULT CATEGORY ☐ Pressure/Forced ☐ Bending ☐ Crushing ☐ Cracks ☐ Crimp/Kink/Ripple/Wave/Twist ☐ Marks/Chatter ☐ Mislabeled ☐ Contamination ☐ Misaligned/off center ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Incomplete/Unclear Instructions ☐ Drill Holes ☐ Fit/Function ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain Direction ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set/Set-up ☐ Positioned Wrong ☐ Outside Tolerance ☐ Drawing ☐ Finish ☐ Part Lost/Missing ☐ Misread			
Other/Details:					

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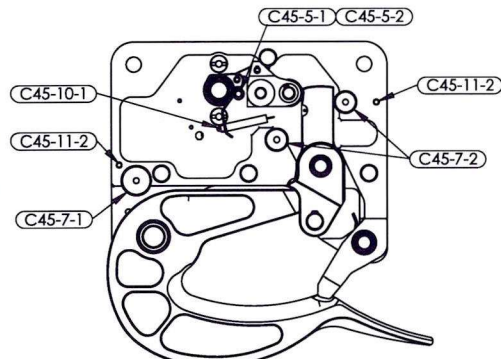
ASSY QTY	B/O	Part #	Description	UNIT QTY	Material	B/O INFORMATION OR SPECIFICATIONS	PG.
		C45-1-1	1 MANUAL KNOB RELEASE	1	6061		2
		C45-2-1	1 SIDE PLATE	1	7075-T6		2
		C45-3-1	2 RADIAL BEARING	2		[KAMAN #160A-285]	2
		C45-3-2	1 LATCH ROLLER PIN	1	O-1		3
		C45-3-3	2 SNAP RING	2	STEEL		3
		C45-3-4	1 LATCH ROLLER	1	4140/4142		3
		C45-3-5	2 LINK PIN	2	O-1		3
		C45-3-6	4 RETAINING RING	4	BERYL/UM COPPER	[MCMASTER-CARR #9810A110]	3
		C45-3-7	2 SPACER	2	TEFLON	[MCMASTER-CARR #9506A180]	3
		C45-3-8	1 LATCH	1	17-4 S.S.		3
		C45-3-9	1 LINK	1	O-1		3
		C45-3-10	1 ACTUATOR SHAFT BUSHING	1	AL BRONZE 600		3
		C45-3-11	1 ACTUATOR SHAFT BUSHING SOLENOID SIDE	1	AL BRONZE 600		3
		C45-3-12	1 LEVER SPRING	1	303 S.S.		3
		C45-3-13	1 LEVER STOP	1	304 S.S.		3
		C45-3-14	1 LEVER STOP	1	STEEL		3
		C45-3-15	1 LOAD BEAM BUMPER	1	POLYURETHANE		2
		C45-3-16	2 LOCK BUMPER	2	POLYURETHANE		2
		C45-3-17	2 SOLENOID NUT	2	304 S.S.		2
		C45-3-18	1 SOLENOID ASSY	1	BLENDED RUBBER	[REF: H-2553-020]	2
		C45-3-19	1 SOLENOID COVER	1	6061		2
		C45-3-20	1 CLOAK SPRING COVER	1	6061		2
		C45-3-21	1 CLOAK SPRING	1	303 S.S.		2
		C45-3-22	1 SPRING PIN	1	S.S.		2
		C45-3-23	1 LOCK SPRING C-45 HOOK	1	7075-T6		2
		C45-3-24	1 LOCK SPRING C-45 HOOK	1	S.S.		2
		C45-3-25	1 LOCK SPRING C-45 HOOK	1	4140/4142		2
		C45-3-26	1 LOCK SPRING C-45 HOOK	1	4140/4142		2
		C45-3-27	1 LOCK SPRING C-45 HOOK	1	4140/4142		2
		C45-3-28	1 LOCK SPRING C-45 HOOK	1	4140/4142		2
		C45-3-29	1 LOCK SPRING C-45 HOOK	1	4140/4142		2
		C45-3-30	1 LOCK SPRING C-45 HOOK	1	4140/4142		2
		C45-3-31	1 LOCK SPRING C-45 HOOK	1	4140/4142		2
		C45-3-32	1 LOCK SPRING C-45 HOOK	1	4140/4142		2
		C45-3-33	1 LOCK SPRING C-45 HOOK	1	4140/4142		2
		C45-3-34	1 LOCK SPRING C-45 HOOK	1	4140/4142		2
		C45-3-35	1 LOCK SPRING C-45 HOOK	1	4140/4142		2
		C45-3-36	1 LOCK SPRING C-45 HOOK	1	4140/4142		2
		C45-3-37	1 LOCK SPRING C-45 HOOK	1	4140/4142		2
		C45-3-38	1 LOCK SPRING C-45 HOOK	1	4140/4142		2
		C45-3-39	1 LOCK SPRING C-45 HOOK	1	4140/4142		2
		C45-3-40	1 LOCK SPRING C-45 HOOK	1	4140/4142		2
		C45-3-41	1 LOCK SPRING C-45 HOOK	1	4140/4142		2
		C45-3-42	1 LOCK SPRING C-45 HOOK	1	4140/4142		2
		C45-3-43	1 LOCK SPRING C-45 HOOK	1	4140/4142		2
		C45-3-44	1 LOCK SPRING C-45 HOOK	1	4140/4142		2
		C45-3-45	1 LOCK SPRING C-45 HOOK	1	4140/4142		2
		C45-3-46	1 LOCK SPRING C-45 HOOK	1	4140/4142		2
		C45-3-47	1 LOCK SPRING C-45 HOOK	1	4140/4142		2
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		C45-3-49	1 LOCK SPRING C-45 HOOK	1	4140/4142		2
		C45-3-50	1 LOCK SPRING C-45 HOOK	1	4140/4142		2
		C45-3-51	1 LOCK SPRING C-45 HOOK	1	4140/4142		2
		C45-3-52	1 LOCK SPRING C-45 HOOK	1	4140/4142		2
		C45-3-53	1 LOCK SPRING C-45 HOOK	1	4140/4142		2
		C45-3-54	1 LOCK SPRING C-45 HOOK	1	4140/4142		2
		C45-3-55	1 LOCK SPRING C-45 HOOK	1	4140/4142		2
		C45-3-56	1 LOCK SPRING C-45 HOOK	1	4140/4142		2
		C45-3-57	1 LOCK SPRING C-45 HOOK	1	4140/4142		2
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		C45-3-60	1 LOCK SPRING C-45 HOOK	1	4140/4142		2
		C45-3-61	1 LOCK SPRING C-45 HOOK	1	4140/4142		2
		C45-3-62	1 LOCK SPRING C-45 HOOK	1	4140/4142		2
		C45-3-63	1 LOCK SPRING C-45 HOOK	1	4140/4142		2
		C45-3-64	1 LOCK SPRING C-45 HOOK	1	4140/4142		2
		C45-3-65	1 LOCK SPRING C-45 HOOK	1	4140/4142		2
		C45-3-66	1 LOCK SPRING C-45 HOOK	1	4140/4142		2
		C45-3-67	1 LOCK SPRING C-45 HOOK	1	4140/4142		2
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		C45-3-69	1 LOCK SPRING C-45 HOOK	1	4140/4142		2
		C45-3-70	1 LOCK SPRING C-45 HOOK	1	4140/4142		2
		C45-3-71	1 LOCK SPRING C-45 HOOK	1	4140/4142		2
		C45-3-72	1 LOCK SPRING C-45 HOOK	1	4140/4142		2
		C45-3-73	1 LOCK SPRING C-45 HOOK	1	4140/4142		2
		C45-3-74	1 LOCK SPRING C-45 HOOK	1	4140/4142		2
		C45-3-75	1 LOCK SPRING C-45 HOOK	1	4140/4142		2
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		C45-3-78	1 LOCK SPRING C-45 HOOK	1	4140/4142		2
		C45-3-79	1 LOCK SPRING C-45 HOOK	1	4140/4142		2
		C45-3-80	1 LOCK SPRING C-45 HOOK	1	4140/4142		2
		C45-3-81	1 LOCK SPRING C-45 HOOK	1	4140/4142		2
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		C45-3-83	1 LOCK SPRING C-45 HOOK	1	4140/4142		2
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		C45-3-87	1 LOCK SPRING C-45 HOOK	1	4140/4142		2
		C45-3-88	1 LOCK SPRING C-45 HOOK	1	4140/4142		2
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		C45-3-93	1 LOCK SPRING C-45 HOOK	1	4140/4142		2
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		C45-3-97	1 LOCK SPRING C-45 HOOK	1	4140/4142		2
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		C45-3-153	1 LOCK SPRING C-45 HOOK	1	4140/4142		2
		C45-3-154	1 LOCK SPRING C-45 HOOK	1	4140/4142		2
		C45-3-155	1 LOCK SPRING C-45 HOOK	1	4140/4142		2
		C45-3-156	1 LOCK SPRING C-45 HOOK	1	4140/4142		2
		C45-3-157	1 LOCK SPRING C-45 HOOK	1	4140/4142		2
		C45-3-158	1 LOCK SPRING C-45 HOOK	1	4140/4142		2
		C45-3-159	1 LOCK SPRING C-45 HOOK	1	4140/4142		2
		C45-3-160	1 LOCK SPRING C-45 HOOK	1	4140/4142		2
		C45-3-161	1 LOCK SPRING C-45 HOOK	1	4140/4142		2
		C45-3-162	1 LOCK SPRING C-45 HOOK	1	4140/4142		2
		C45-3-163	1 LOCK SPRING C-45 HOOK	1	4140/4142		2
		C45-3-164	1 LOCK SPRING C-45 HOOK	1	4140/4142		2
		C45-3-165	1 LOCK SPRING C-45 HOOK	1	4140/4142		2
		C45-3-166	1 LOCK SPRING C-45 HOOK	1	4140/4142		2
		C45-3-167	1 LOCK SPRING C-45 HOOK	1	4140/4142		2
		C45-3-168	1 LOCK SPRING C-45 HOOK	1	4140/4142		2
		C45-3-169	1 LOCK SPRING C-45 HOOK	1	4140/4142		2
		C45-3-170	1 LOCK SPRING C-45 HOOK	1	4140/4142		2
		C45-3-171	1 LOCK SPRING C-45 HOOK	1	4140/4142		2
		C45-3-172	1 LOCK SPRING C-45 HOOK	1	4140/4142		2
		C45-3-173	1 LOCK SPRING C-45 HOOK	1	4140/4142		2
		C45-3-174	1 LOCK SPRING C-45 HOOK	1	4140/4142		2
		C45-3-175	1 LOCK SPRING C-45 HOOK	1	4140/4142		2
		C45-3-176	1 LOCK SPRING C-45 HOOK	1	4140/4142		2
		C45-3-177	1 LOCK SPRING C-45 HOOK	1	4140/4142</		

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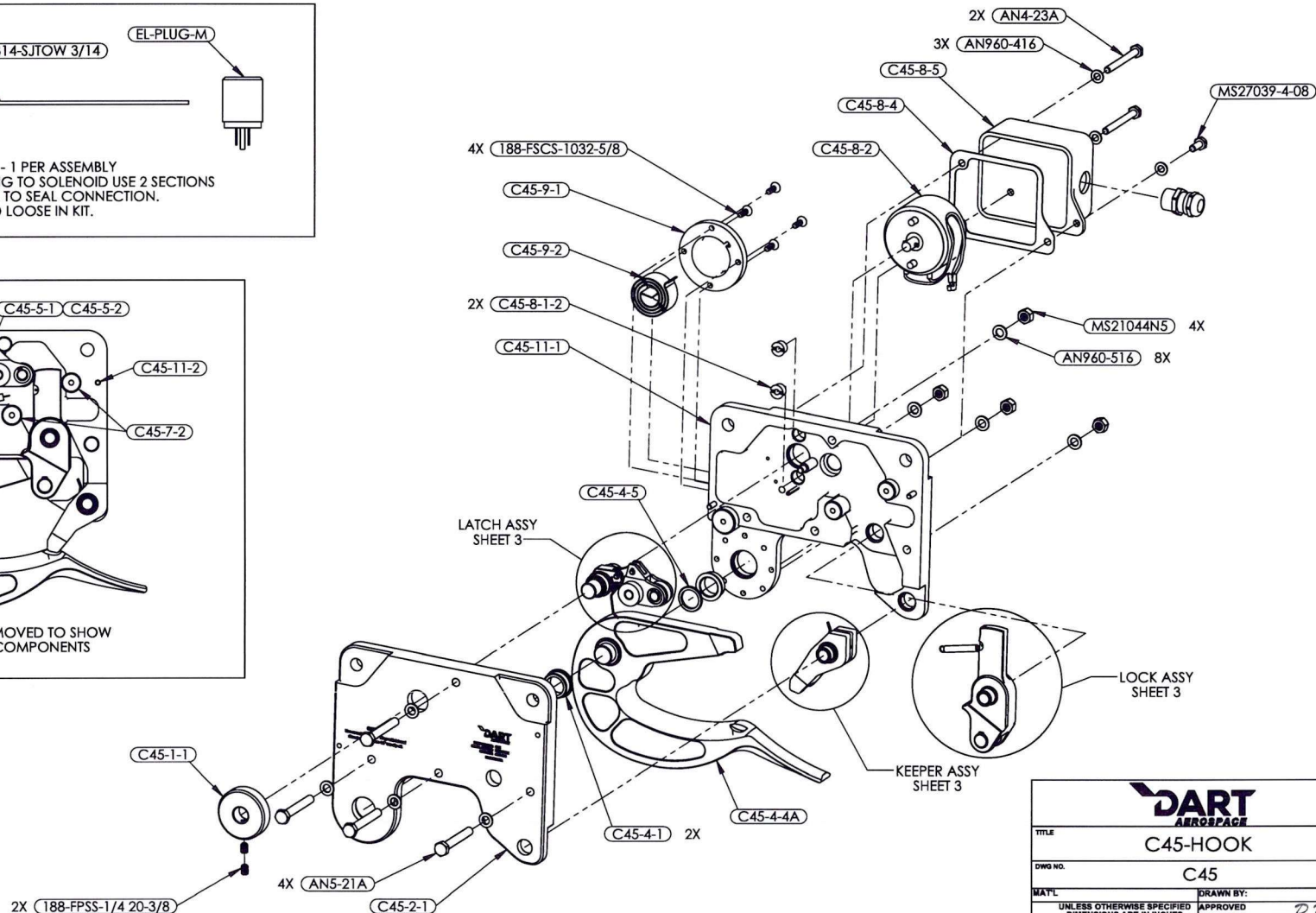
REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED



WIRE ASSEMBLY - 1 PER ASSEMBLY
WHEN INSTALLING TO SOLENOID USE 2 SECTIONS
OF HEAT SHRINK TO SEAL CONNECTION.
PLUG INCLUDED LOOSE IN KIT.



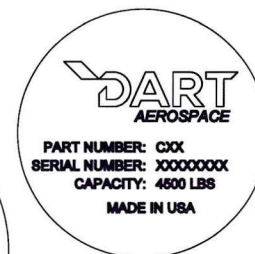
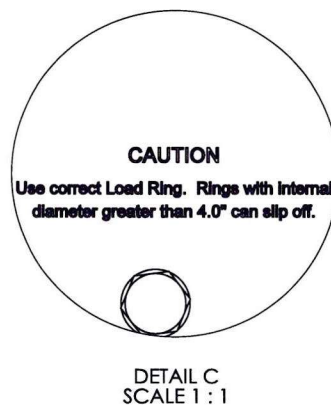
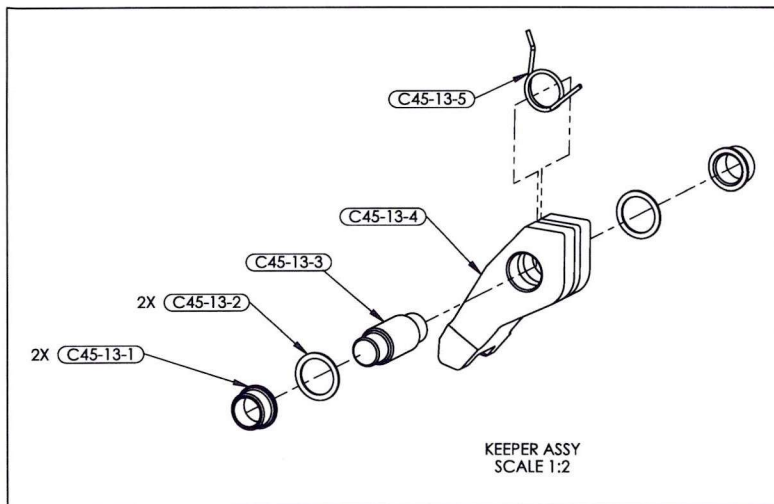
SIDE PLATE REMOVED TO SHOW
INTERNAL COMPONENTS



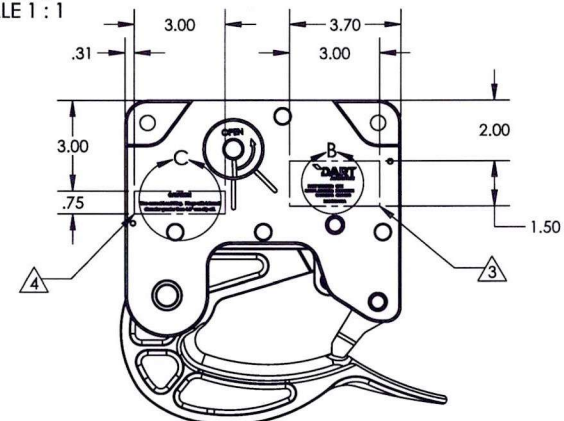
DART AEROSPACE	
TITLE C45-HOOK	
DWG NO. C45	REV 2
MATERIAL C45	
DRAWN BY: <i>D. Weil</i>	
APPROVED <i>D. Weil</i>	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
XXX ± .005	FRACTIONS ± 1/8
XX ± .01	ANGLES ± .5°
X ± .1	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
SCALE 1:4	DATE SHEET 2 OF 3

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
2	15-0230	ADDED ENGRAVING NOTES & DETAILS.	9/10/2015	DPD	JAG

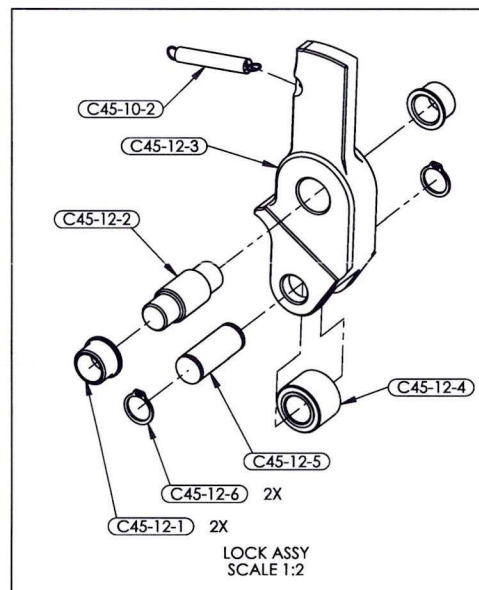
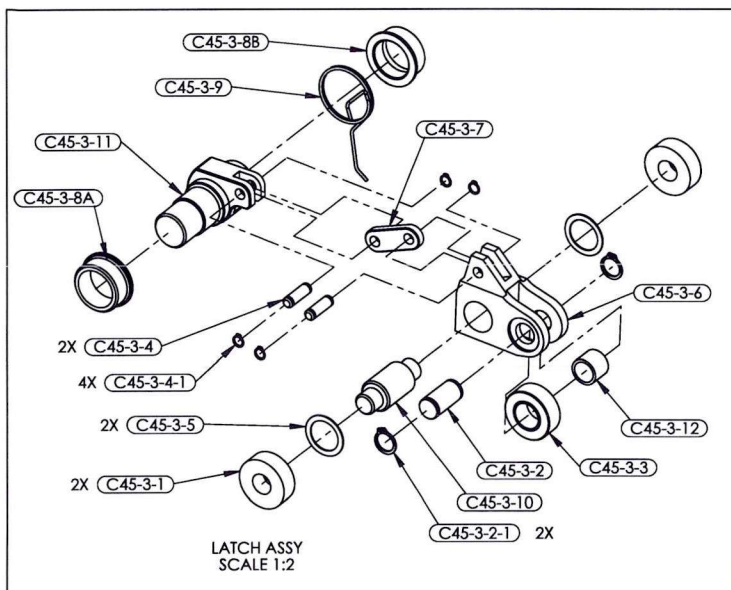


DETAIL B
SCALE 1:1



NOTES:

- 3 LASER ENGRAVE DART LOGO, P/N, S/N, "MADE IN USA," WITHIN BOUNDARY.
- 4 LASER ENGRAVE CAUTION NOTE, WITHIN BOUNDARY.



DART AEROSPACE	
TITLE C45-HOOK	
DWG NO. C45	REV 2
MATERIAL C45	
DRAWN BY: D. Well	
APPROVED D. Well	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
.XXX ± .005	FRACTIONS ± 1/8
.XX ± .01	ANGLES ± .5°
.X ± .1	
SPEC	
1. BREAK ALL SHARP EDGES .015 x 45°	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
SCALE 1:4	DATE
SHEET 3 OF 3	

Entered: _____ Date: _____



WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. _____

Route update only ☐

Job: _____ Part No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐	DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Eng. (Non-AW) ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Engineering ☐ Water Jet ☐ Supplier ☐ Quality ☐			
Date :	Sequence #:	QTY Affected :		MRB (QSI042)	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor	
				QC / QA Coordinator	
Root Cause Operator ☐ Manufacturing Process ☐ Equip/Tooling ☐ Handling/Presservation ☐ Material ☐ Product Improvement ☐ Process Improvement ☐ Human Factors ☐		FAULT CATEGORY ☐ Pressure/Forced ☐ Bending ☐ Crushing ☐ Cracks ☐ Crimp/Kink/Ripple/Wave/Twist ☐ Marks/Chatter ☐ Mislabeled ☐ Contamination ☐ Misaligned/off center ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Incomplete/Unclear Instructions ☐ Drill Holes ☐ Fit/Function ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain Direction ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set/Set-up ☐ Positioned Wrong ☐ Outside Tolerance ☐ Drawing ☐ Finish ☐ Part Lost/Missing ☐ Misread			
Other/Details:					